

## ABSTRACT OF THE DISCLOSURE

Filter coefficients of a beamformer are computed based on a segment of input samples. The segment of input samples is divided into a plurality of blocks of input samples wherein the plurality of blocks of input samples are received by a shared memory at a first rate. The first block of the plurality of blocks is received in the shared memory at a first time. The plurality of blocks of input samples from the shared memory are read out at a second rate wherein the first block of the plurality of blocks is read from the shared memory at a second time. A plurality of partial covariance matrices for the plurality of blocks read from the shared memory are computed and added together to determine a covariance matrices used to compute the filter coefficients.

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